Walter Wu

New York | (917) 392-6547 | walter@itswalterwu.com
itswalterwu.com | github.com/walter090 | linkedin.com/in/walter090

EDUCATION

Stony Brook University **Sep 2012 - Aug 2017**
Stony Brook, NY
- Bachelor of Science in Applied Mathematics and Statistics
- Minor in Computer Science

Udacity **Feb - Aug 2017**
- Machine Learning Engineer Nanodegree

Coursera **Nov 2016 - Jan 2017**
- Machine Learning Specification

SKILLS

Programming Languages: * Advanced Skills

Python*	Java*	JavaScript	Go	HTML*	CSS

Tools:

TensorFlow*	Scikit-learn*	NumPy*	Pandas*	BeautifulSoup*
Docker	Jupyter Notebook*	Django	Spring MVC	GCE
Git	Linux	PostgreSQL	Kubernetes	MATLAB

PROJECTS

Toxic Comment Detection **Jan - Mar 2018**
github.com/walter090/toxic_comments
- Experiment with multi-label text classification using Kim Yoon's CNN and LSTM.
- Achieved an area under ROC curve of 0.976 with CNN and 0.983 with a stacked LSTM with attention model. Deployed the saved model with Docker and Kubernetes.

GAN Image Colorization **Jun - Aug 2017**
github.com/walter090/noir2color
- Implemented and trained a conditional generative adversarial network (CGAN) model to colorize grayscale images using TensorFlow.
- Acquired the dataset by scraping Getty and Google image search results with BeautifulSoup; preprocessed the data using Pillow and scikit-image.

Data visualization **Oct - Dec 2016**
github.com/walter090/fires_plot_web
- Visualized the data for the Montesinho natural park forest fires dataset using D3.js.
- Preprocessed the data with Pandas and Numpy and integrated the visualization tool with Django and deployed using Heroku.

EXPERIENCE

Web Developer at **be Waste Wise** **Dec 2017 - Present**
New York, NY
- Designing and implementing a new webinar and user registration system for the website, making the site more user-friendly for people passionate about the environment.
- Building a system that analyzes the site traffic and displays contents based on users' tastes.

Summer Intern at **Lightbeam Technologies** **Jun - Aug 2016**
Taizhou, China
- Helped designing and building a system that obtains and visualize data from emails.
- Parsed emails and web pages for data using BeautifulSoup and visualized the data using D3.js.
- Improved the process for email filtering and reduced the number of filtering errors.